

Olympus Develops Open Platform for AI-assisted Endoscopic Examinations —Will Support Computer-aided Diagnosis (CAD) using Gastrointestinal Endoscopes—

Olympus Corporation today announced its development of a technology that uses artificial intelligence (AI) to aid in the detection and diagnosis of diseases during endoscopic examinations of areas such as the stomach, colon, and esophagus. The new CAD Open Platform will provide one-stop access to CAD applications for diagnosing gastrointestinal endoscopic images.

Recent years have seen widespread development of technologies to assist in the diagnosis and treatment of diseases through AI-powered analysis of medical images. As a long-time manufacturer of endoscopes, Olympus develops its own technology for AI-assisted diagnosis and treatment, and it also collaborates with external development partners. Olympus is actively adopting computer-aided diagnosis (CAD) to leverage AI for the diagnosis of medical images. Two types of CAD exist: computer-aided detection (CADe), which uses AI to detect lesions, and computer-aided diagnosis (CADx), which uses AI to diagnose suspected diseases by name. Olympus is adopting both technologies for gastric and esophageal applications, in addition to a CADe solution it has already developed for diagnosing colonoscopic images.

The new CAD Open Platform will enable switching between multiple CAD applications simply through connection to an Olympus gastrointestinal endoscope system. Various CAD applications available in medical facilities will be accessed efficiently via a single system without the need for multiple PCs or other connected devices. Olympus is now developing its own applications and collaborating with partners to develop the system as an open platform, in addition to satisfying regulatory requirements and preparing to commercialize the platform.

- Features of new CAD Open Platform
 - Will connect to Olympus gastrointestinal endoscope systems to enable computer-aided detection/diagnosis to be viewed on-screen in real time
 - Will be designed to support high-accuracy detection and diagnosis of lesions
 - Will fit on an Olympus gastrointestinal endoscope system trolley for use with other systems

